

# DELL VCF 5.2.1 ON VXRAIL ADMINISTRATION

Course Code: 833000

Learn an administrator to manage a VMware Cloud Foundation (VCF) on VxRail solution.

This course enables an administrator to manage a VMware Cloud Foundation (VCF) on VxRail solution. It covers reviewing the management interfaces, managing users, roles, and passwords, managing certificates and licenses, managing the workload domains, deploying NSX-T Edge cluster, performing lifecycle management, configuring multi-instance management, and exploring troubleshooting and support options. Hands on labs and simulated interactions are included for practicing key administrative tasks.

## What You'll Learn

Upon successful completion of this course, participants should be able to:

- Describe the VCF on VxRail architecture
- Manage user accounts, roles and, passwords
- Manage VCF on VxRail components certificates and licenses
- Add and remove Tenant workload hosts
- Explore Developer Center
- Deploy NSX-T Edge cluster
- Describe VCF multi-instance management
- Perform lifecycle management
- Describe the prerequisites and the process to deploy vRealize Suite

## Who Needs to Attend

This course is intended for customers, partners and Dell Technologies employees who are responsible for administering and managing a VCF on VxRail solution

## Prerequisites

This course assumes that the students are familiar with:

- Basic understanding of VMware Cloud Foundation
- Technical proficiency with VMware ESXi, vSphere and NSX-T components and user interfaces
- Experience of administering VxRail systems

The following training is recommended:

- VxRail Concepts

- VxRail Administration
- VMware Cloud Foundation Overview

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VIRTUAL CLASSROOM LIVE

\$2,860 CAD

2 Day

## Virtual Classroom Live Outline

### **Module 1: Describe the VCF on VxRail**

- Overview of VCF on VxRail
- VCF on VxRail Architecture
- Supported storage and networking options
- High-level implementation steps for VCF on VxRail

### **Module 2: Use multiple UIs to identify system components**

- Describe the various user interfaces and explain their uses Identify the cluster, hosts and storage for each domain in SDDC manager
- Lab: Identify the cluster, hosts and storage for the Management Domain and VI WLD in SDDC manager
- Identify the cluster, hosts, and storage for each WLD in the vSphere client
- Lab: Identify Mgmt. and VI WLD components using the vSphere Client
- Identify NSX components and segments for each WLD in NSX Manager
- Lab: Identify Mgmt. and VI WLD components using the NSX Manager

### **Module 3: Manage User Accounts and Roles SSO and identity sources**

- Lab: Add Active Directory over LDAP external identity source to VCF
- VCF users and roles
- Lab: Assign roles to groups and test access

### **Module 4: Manage System Component Passwords Component password management options for VCF**

- Lab: Change a password locally on a system component
- Lab: Use the Remediate action to update a component password in SDDC Manager
- Lab: Use the Update action to set a specific password for a VCF component
- Lab: Use the Rotate Now action to set a random password for a VCF component
- Lab: Use the Schedule Rotation action to set an automatic password change schedule

- Lab: Use the lookup\_password utility to retrieve a component password

### **Module 5: Manage TLS Certificates Certificate management options for VCF**

- Lab: Manage Certificates

### **Module 6: Manage Licenses How licensing works in SDDC manager**

- Lab: Add a license to SDDC Manager
- Lab: Assign a new license from SDDC Manager

### **Module 7: Manage Workload Domain Hosts Overview of adding a VxRail host to a workload domain**

- Lab: Add a VxRail host to a VxRail cluster using the vSphere client and VxRail plugin
- Lab: Add a VxRail host to a VI workload domain using SDDC Manager.
- Considerations for removing a VxRail host from an existing workload domain
- Lab: Remove a VxRail host from a VI workload domain using SDDC Manager.

### **Module 8: Use Developer Center to access and manage VCF VCF developer center and API capabilities**

- Lab: Retrieve cluster information using developer center
- Lab: Create a service account using developer center

### **Module 9: Deploy NSX Edge cluster on a VI WLD using the API NSX networking for VI workload VMs**

- Lab: Deploy an NSX Edge cluster using API
- Lab: Validate the NSX Edge cluster deployment using NSX Manager

### **Module 10: Configure SDDC Manager and NSX Manager Backups**

- Various backup types and options for SDDC Manager and NSX Manager
- Lab: Configure an external SFTP server target in SDDC Manager
- Backup schedules for VCF
- Lab: Configure a backup schedule for SDDC Manager, NSX Manager and vCenter.

### **Module 11: Upgrade SDDC Manager**

- VCF Lifecycle Management (LCM)
- Why and when to perform an update
- Lab: Validate that the correct upgrade bundle is available
- Lab: Perform a Precheck in SDDC Manager
- Lab: Perform an upgrade on SDDC Manager

### **Module 12: Deploy VMware Aria Suite Lifecycle**

- Lab: Deploy VMware Aria Suite Lifecycle

### **Module 13: Support VCF**

- Supportability and Serviceability (SoS) Utility
- Lab: Disable the ESXi SSH access for all ESXi hosts using the SOS utility
- Lab: Validate system health using the SOS utility
- Lab: Generate logs using the SOS utility and collect the logs
- Describe VCF log files uses and locations

- Describe how to troubleshoot a failed workflow

## Virtual Classroom Live Labs

- Lab: Use vSphere Client to Explore the Newly Deployed VCF on VxRail solution
- Lab: Explore the SDDC Manager UI
- Lab: Join WLDs vCenters to Active Directory (AD)
- Lab: Add AD as the Default Identity Source
- Lab: Create an Administrative User and Group in AD
- Lab: Review Existing AD Groups
- Lab: Assign SDDC Manager Roles
- Lab: Unassign an SDDC Manager Role
- Lab: Verify SDDC Manager Roles
- Lab: Create and Add a Microsoft CA Template
- Lab: Configure Internet Information Services (IIS) to Allow Access to the CA
- Lab: Configure Access to CA in SDDC Manager
- Lab: Generate a Certificate Signing Request
- Lab: Generate and Install a Signed Certificate
- Lab: Explore Developer Center
- Lab: Create an SDDC Manager Service Account
- Lab: Explore Available Licenses in the SDDC Manager UI
- Lab: Review Downloaded Bundles and the Current Version of SDDC Manager
- Lab: Install Update Bundles
- Lab: Remove a host from the Tenant Workload Domain
- Lab: Deploy an NSX-T Edge Cluster on the VI WLD using the Postman API Tool.

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